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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|--|-----------------|----------------------|------------------------|------------------|
| 10/825,816 | 04/16/2004 | Ho-In Kim | 5000-1-574 | 8684 |
| 33942 | 7590 11/30/2006 | | EXAMINER | |
| CHA & REITER, LLC 210 ROUTE 4 EAST STE 103 PARAMUS, NJ 07652 | | TRAN, CHUC | | |
| | | | ART UNIT | PAPER NUMBER |
| PARAMUS, | NJ 07032 | | 2821 | |
| | | | DATE MAILED: 11/30/200 | 6 |

Please find below and/or attached an Office communication concerning this application or proceeding.

| | Application No. | Applicant(s) | | | | |
|--|---|--|--|--|--|--|
| | 10/825,816 | KIM ET AL. | | | | |
| Office Action Summary | Examiner | Art Unit | | | | |
| | Chuc D. Tran | 2821 | | | | |
| The MAILING DATE of this communication app Period for Reply | ears on the cover sheet with the c | orrespondence address | | | | |
| A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period v - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). | ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE | N. nely filed the mailing date of this communication. D (35 U.S.C. § 133). | | | | |
| Status | | | | | | |
| 1) Responsive to communication(s) filed on 11 Se | eptember 2006. | , | | | | |
| | action is non-final. | | | | | |
| · | Since this application is in condition for allowance except for formal matters, prosecution as to the merits is | | | | | |
| closed in accordance with the practice under E | closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. | | | | | |
| Disposition of Claims | | | | | | |
| 4)⊠ Claim(s) <u>1-17</u> is/are pending in the application. | 4)⊠ Claim(s) 1-17 is/are pending in the application. | | | | | |
| , | 4a) Of the above claim(s) is/are withdrawn from consideration. | | | | | |
| 5) Claim(s) is/are allowed. | | | | | | |
| 6)⊠ Claim(s) <u>1-3,14 and 15</u> is/are rejected. | ☑ Claim(s) <u>1-3,14 and 15</u> is/are rejected. | | | | | |
| 7)⊠ Claim(s) <u>4-13,16-17</u> is/are objected to. | | | | | | |
| 8) Claim(s) are subject to restriction and/or | r election requirement. | | | | | |
| Application Papers | | • | | | | |
| 9) The specification is objected to by the Examine | r. ' | | | | | |
| 10) The drawing(s) filed on is/are: a) acce | epted or b) objected to by the I | Examiner. | | | | |
| Applicant may not request that any objection to the | drawing(s) be held in abeyance. See | e 37 CFR 1.85(a). | | | | |
| Replacement drawing sheet(s) including the correct | ion is required if the drawing(s) is obj | jected to. See 37 CFR 1.121(d). | | | | |
| 11) ☐ The oath or declaration is objected to by the Ex | aminer. Note the attached Office | Action or form PTO-152. | | | | |
| Priority under 35 U.S.C. § 119 | | | | | | |
| 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: | | | | | | |
| 1. Certified copies of the priority documents have been received. | | | | | | |
| 2. Certified copies of the priority documents have been received in Application No | | | | | | |
| Copies of the certified copies of the prior | ity documents have been receive | ed in this National Stage | | | | |
| application from the International Bureau | , ,,, | | | | | |
| * See the attached detailed Office action for a list | of the certified copies not receive | e d | | | | |
| | | | | | | |
| Attachment(s) | | | | | | |
| 1) Notice of References Cited (PTO-892) | 4) Interview Summary | | | | | |
| 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) | Paper No(s)/Mail Date 5) Notice of Informal Patent Application | | | | | |
| Paper No(s)/Mail Date | 6) Other: | · · · · · · · · · · · · · · · · · · · | | | | |
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DETAILED ACTION

Response to Arguments

1. Applicant's arguments with respect to claims 1-17 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 3. Claims 1-3 and 14-15 are rejected under 35 U.S.C. 102(e) as being anticipated by Bang et al. (USP. 6,771,681).

Regarding claims 1 and 14, Bang disclose a gain-clamped semiconductor optical amplifier in Fig. 3, comprising: a gain waveguide (350) for amplifying an optical signal input to the gain waveguide (Abstract); and a grating layer (320) having a first grating (330) on a portion of the grating layer (Fig. 3), the first grating being disposed at a first end portion (Fig. 3), wherein the gain waveguide (350) is disposed on the grating layer (320) in a direct contact with the first grating (330) (Fig. 3).

Regarding claims 2 and 15, Bang disclose that a second grating (340) disposed at a second end portion (Fig. 3).

Regarding claim 3, Bang disclose that a clad (380) laminated on the gain waveguide (Fig. 3).

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Allowable Subject Matter

4. Claims 4-13 and 16-17 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Inquiry

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chuc D. Tran whose telephone number is (571) 272-1829. The examiner can normally be reached on M-F Flex hours.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy P. Callahan can be reached on (571) 272-1740. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

die

TC November 22, 2006

HOANG V. NGUYEN PRIMARY EXAMINER